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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/697,293	10/31/2003	Takeshi Matsuoka	4035-0161P	8450
2292	7590 10/13/	94	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			GREGORY, BERNARR E	
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER
			3662	
			DATE MAILED: 10/13/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/697,293	MATSUOKA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Bernarr E. Gregory	3662				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) 1-16 is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)⊠ The specification is objected to by the Examiner	•.					
10)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcti	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
1.⊠ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	(PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of	of the certified copies not receive	d.				
Attachment(s)	·	·				
) ⊠ Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
P) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite				
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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1. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

On line 5 of independent claim 1, it is unclear in context what is meant by "high-resolution airborne SAR." What level of resolution in SAR constitutes "high-resolution"?

Independent claim 5 is indefinite and unclear in context as to what is being claimed (method, apparatus, or computer program product) in that the term "program" is used, but it is not clear that this means a computer program is claimed and there is no recitation of a computer-readable medium on which the program would reside if it were a computer program.

Independent claim 9 is indefinite and unclear in that it attempts to claim a computer program on a medium, but it never recites any of the steps of the program and in that the medium is not identified as a computer-readable medium.

Independent claim 13 is indefinite and unclear in context in that it is identified as an apparatus claim (line 1), but it fails to recite any structure in the body of the claim in that a "program" is not structure and in that a "relational expression" is not structure.

Dependent claims 2-4, 6-8, 10-12, and 14-16 are unclear in that they depend from unclear independent claims 1, 5, 9, and 13.

2. 35 U.S.C. 101 reads as follows:

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Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 5-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Independent claim 5 and its dependent claims 6-8 claim a computer program that is not claimed as being on a computer-readable medium, so the claims are directed to non-statutory subject matter. Please see MPEP 2106, especially section IV.B.1. of the official guidelines in that section.

Similarly, independent claim 9 and its dependent claims 10-12 claim a computer program that is not claimed as being on a computer-readable medium, so the claims are likewise directed to non-statutory subject matter. Please see MPEP 2106, especially section IV.B.1. of the official guidelines in that section.

Independent claim 13 and its dependent claims 14-16 claim a computer program (line 2) along with a "relational expression" (formula?) that is not claimed as being on a computer-readable medium, so the claims are directed to non-statutory subject matter. Please see MPEP 2106, especially section IV.B.1. of the official guidelines in that section.

- 3. Claim 1 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.
- 4. Claims 2-4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

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The drawings are objected to under 37 CFR 1.83(a) because they fail to show 5. the structure of apparatus claims 13-16 as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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- 6. The specification is objected to under 37 CFR 1.77(b) and 37 CFR 1.77(c) in that it does not have the proper section headings set forth in those rules. Correction is hereby required.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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The examiner-cited prior art is of general interest for showing prior art returned wave systems and methods that detect or make measurements relating to ice.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (703) 306-5765. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (703) 306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bernárr E. Gregory

Primary Examiner

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